

HIGH PERFORMANCE NUCLEIC ACID HYBRIDIZATION
DEVICE AND PROCESS

ABSTRACT OF THE DISCLOSURE

The invention discloses a device for hybridization reaction between
5 a target molecule in a fluid and a probe, which comprises a microfluidic channel comprising a first portion and a second portion following said first portion; wherein said first portion have an irregular cross section and said second portion has a probe, and a fluid driving element connected the ends of said channel with tubes, wherein said fluid element can move said target molecules back-and-forth for repeatedly passing through said second portion.

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